



YONG CHENG INTERNATIONAL(OTA)

新锐芯-YX测试报告

Antenna Test Report



◆ 日期 2024年08月02日

Test item	
1	Matching parameter
2	Network debugging antenna S parameters
3	Microwave darkroom test OTA active data
4	Measurement of antenna efficiency field pattern in microwave darkroom
5	measuring distance
6	Assembly item
7	summary of commissioning test



Customer	XRX	Project name	S8
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frequency
band

2400MHZ-2500MHZ

engineer:

CK

Date

2024/08/02

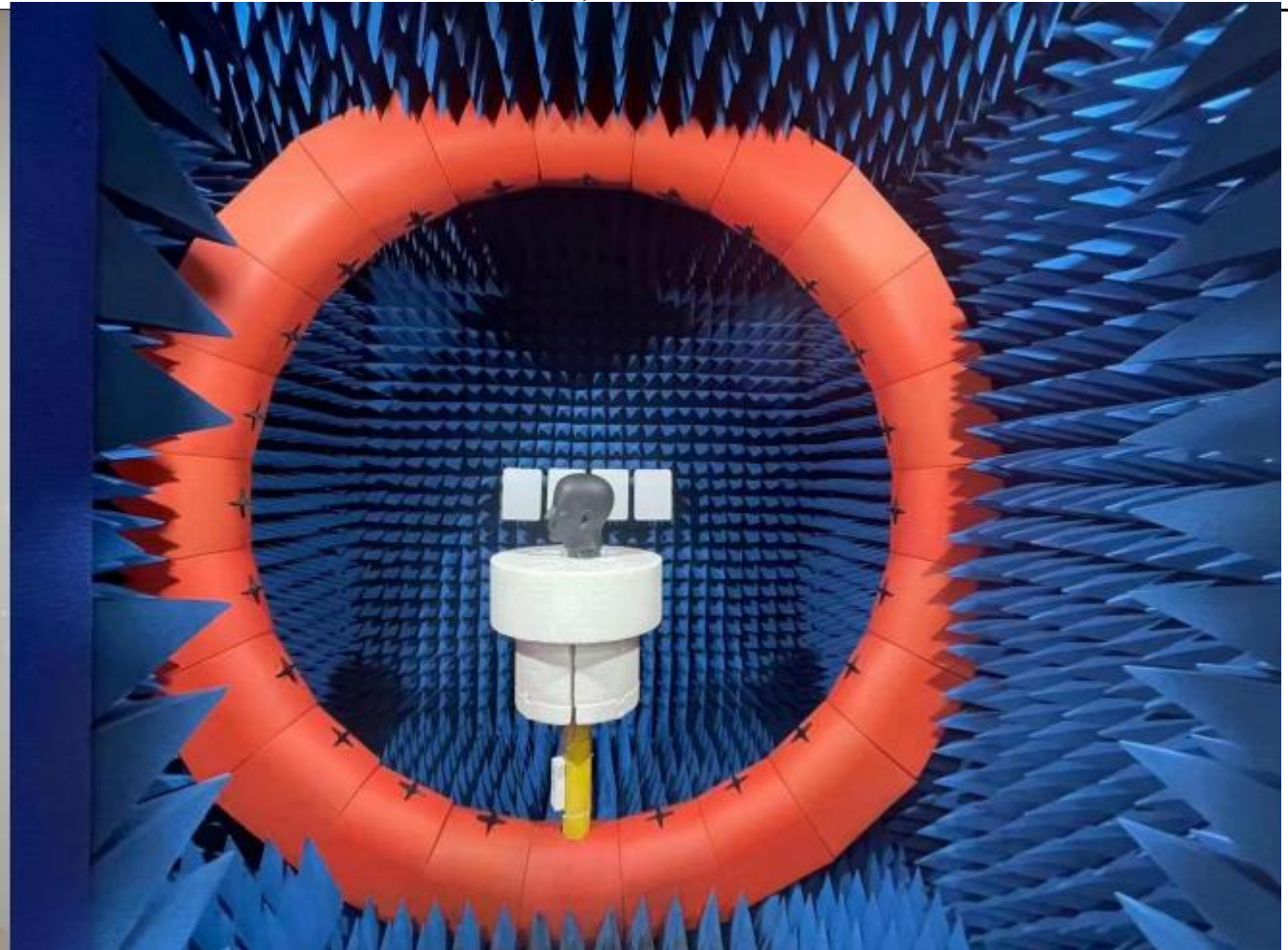
phone:

13530576606



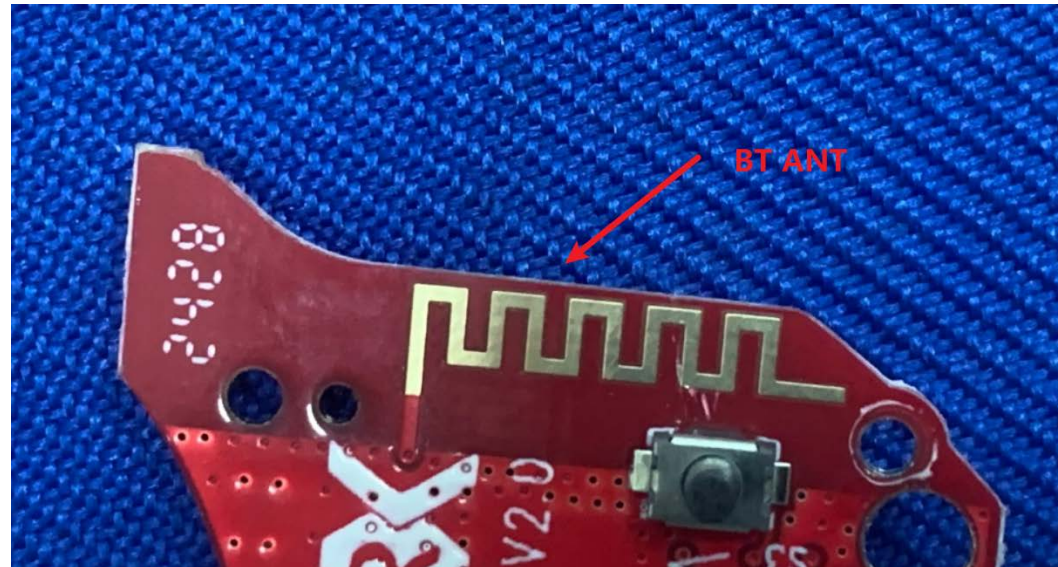
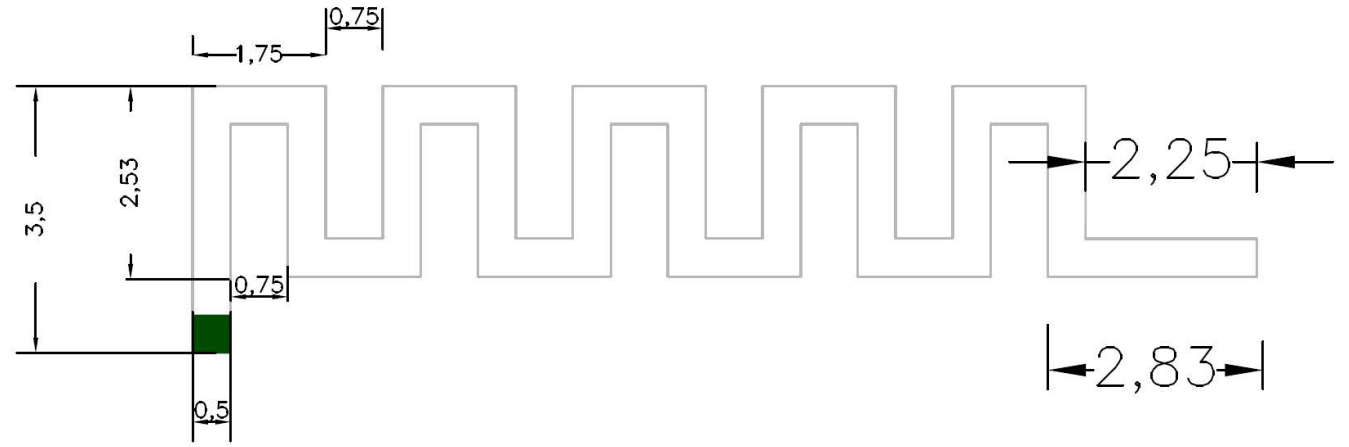
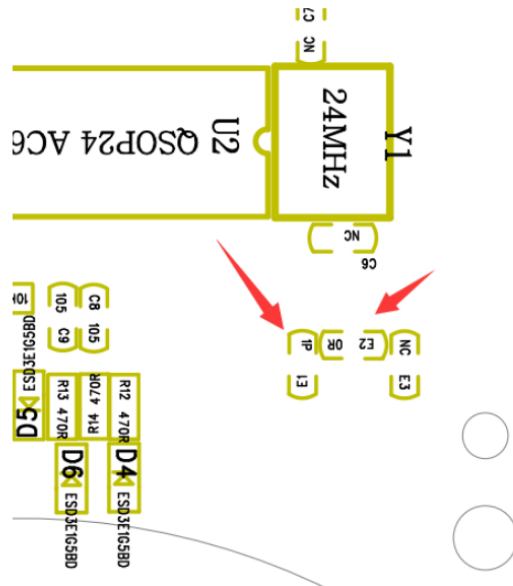
1.测试工具

矢量网络分析仪&综测仪	Agilent Technologies E5071B & R&S CMW500
暗室	Atenlab M3
测试工程师	CK
温度	25℃
湿度	65% (RH)



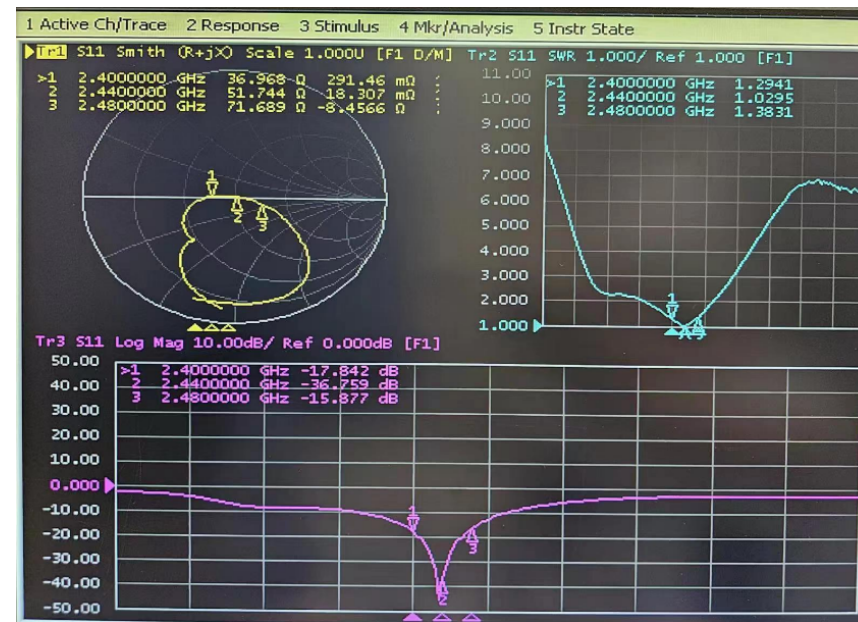
Antenna Placement

Unit: mm





S11、SWR、smith chart:





Antenna active test data

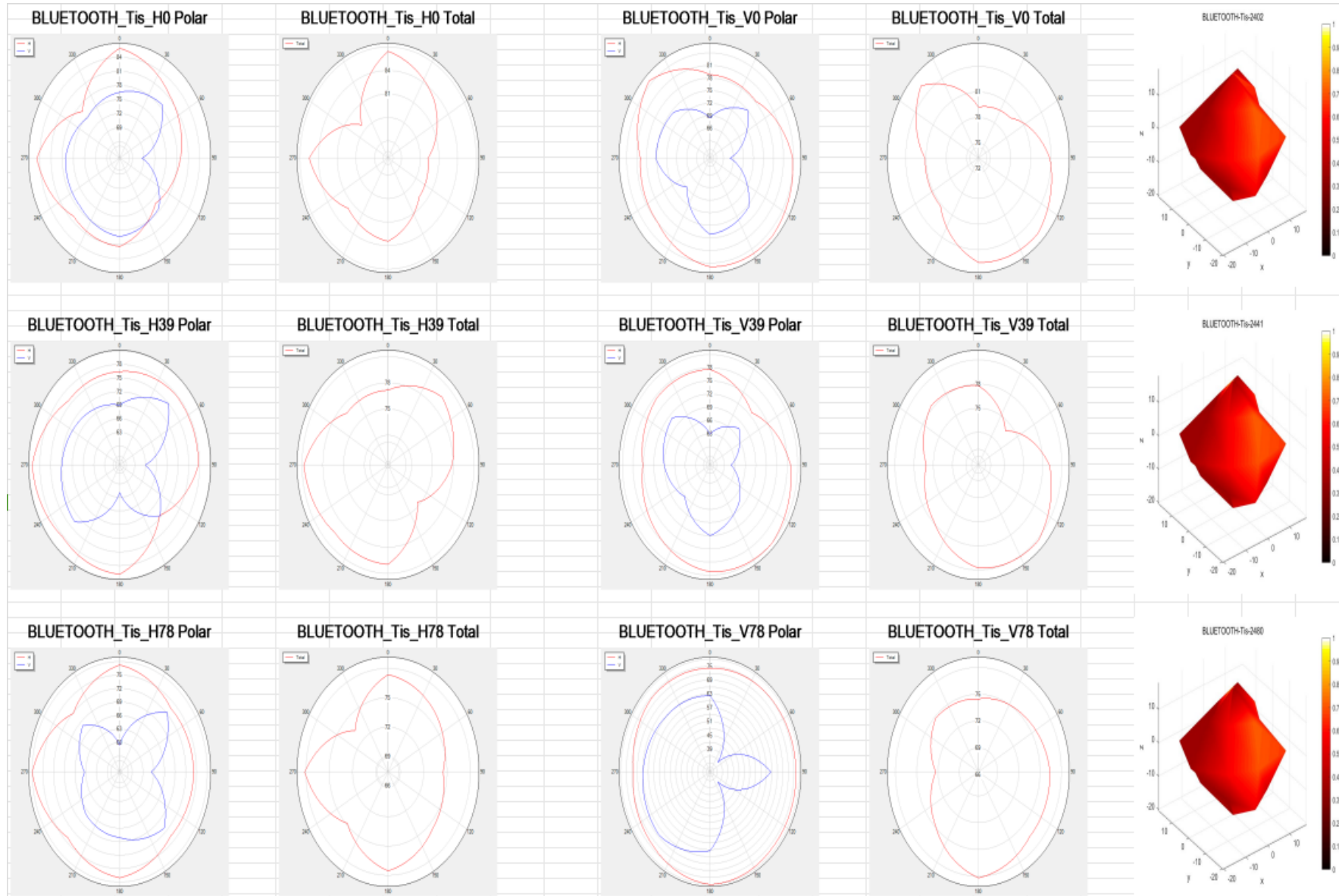
ANT EIRP&EIS parameter Summary (free field)

Standard	Chan	Freq	Type	TRP/TIS
BT	0	2402	Trp	0.09
BT	39	2441	Trp	-0.37
BT	78	2480	Trp	-1.91
BT	0	2402	Tis_Rssi	-75.78
BT	39	2441	Tis_Rssi	-79.45
BT	78	2480	Tis_Rssi	-76.01



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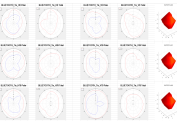
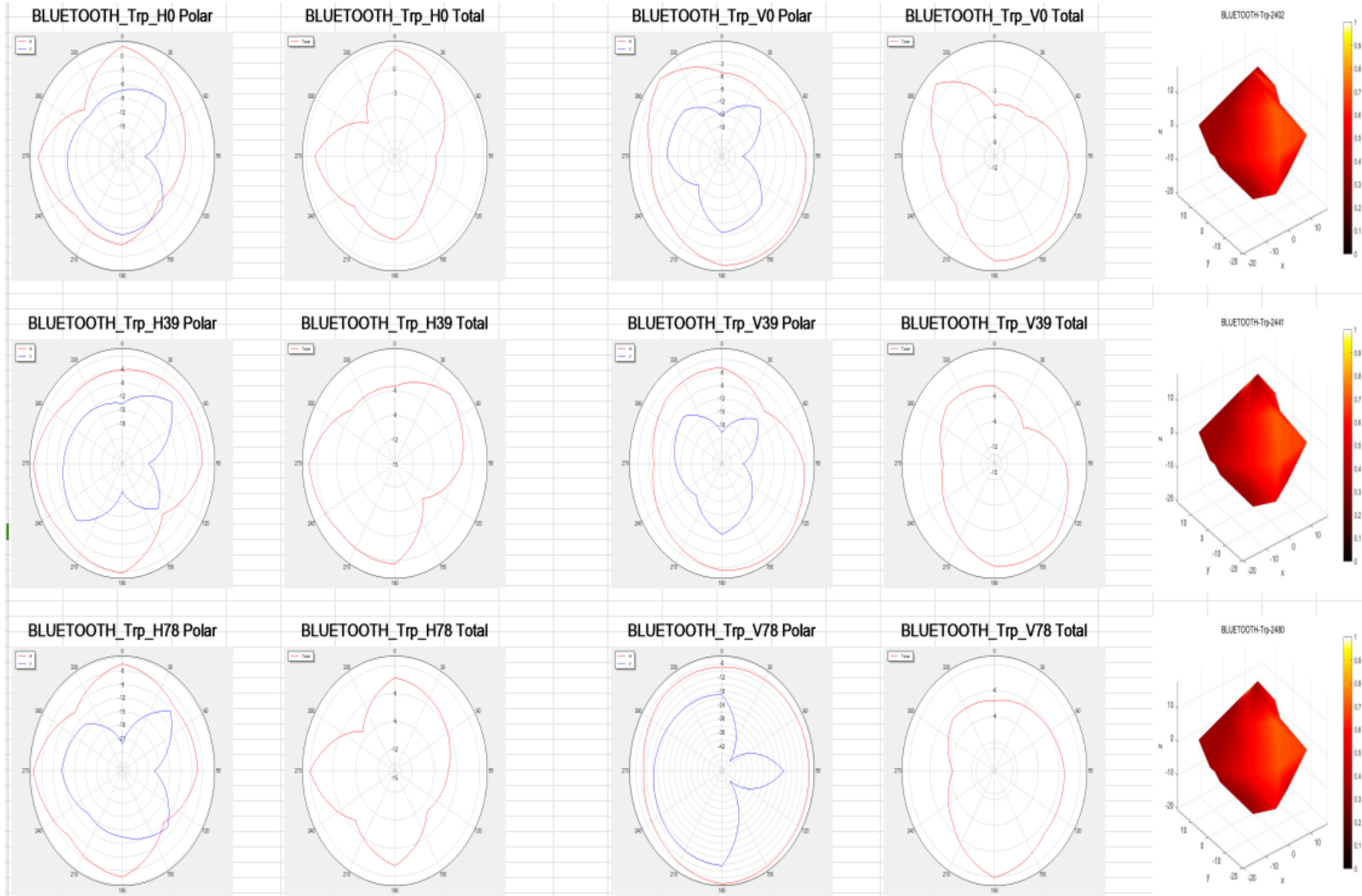
-TIS The antenna pattern of the free field





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-TRP The antenna pattern of the free field





Antenna efficiency gain

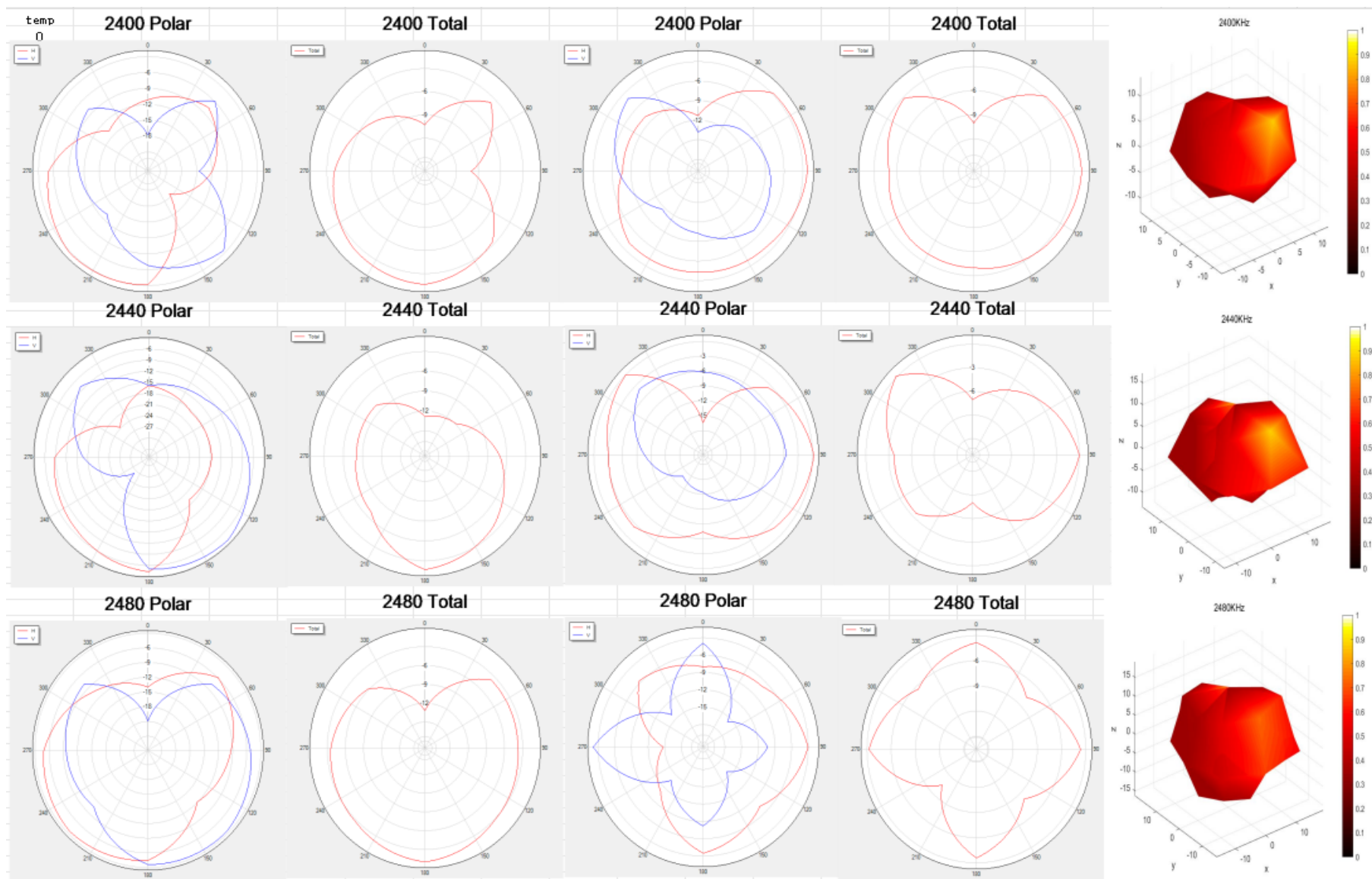
天线效率与增益图



Frequency	Effic	Percen	Gain
2400	-5.64	27.27%	-1.05
2410	-5.31	29.45%	-0.94
2420	-4.76	33.45%	-0.6
2430	-4.79	33.2%	-0.56
2440	-5.43	28.62%	-0.73
2450	-5.33	29.34%	-0.43
2460	-5.72	26.81%	-0.19
2470	-5.87	25.91%	0
2480	-5.57	27.73%	0.46



Antenna radiation pattern 2400.00MHz/2440.00MHz/2480.00MHz



measuring distance

a. Environme

test project	Trying hard not to hear		Pocket test requirement		descr
S8			right front	OK	The iPhone5 was tested over 12meters in the park
	OK		front-left	OK	
			right rear	OK	
			left rear	OK	

b. summarize

S8 machine actual test, OTA data test, basically distance matching, our park grass test effect is excellent

assembly method

Thank you for watching

Wish you enjoy your life

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